

PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

IN THE PATENT APPLICATION OF:

DANNY D. BEAVER

U.S. SERIAL NO: UNKNOWN

GROUP: UNKNOWN

FILED: CONCURRENTLY

EXAMINER: UNKNOWN

FOR: FORMING SERPENTINE HEAT EXCHANGERS
FROM SPINE FIN TUBING

La Crosse, Wisconsin
November 2, 2001

INFORMATION DISCLOSURE STATEMENT

Assistant Commissioner for Patents

Washington, D.C. 20231

Dear Sir:

For the benefit of the Examiner, applicant encloses copies of the following patents which were discussed in the Background section of the application and incorporated by reference into the application: U.S. Patent 3,005,253 to Venables III; U.S. Patent 3,134,166 to Venables III; U.S. Patent 3,160,129 to Venables III; U.S. Patent 3,688,375 to Venables III; U.S. Patent 4,381,592 to Venables III et al.; and, U.S. Patent 4,542,568 to Venables III et al.

Applicant also encloses and discusses copies of the following patents.

U.S. Patent 4,438,808 to Venables III et al., U.S. Patent 4,581,800 to Johnson; U.S. Patent 5,193,359 to Martin et al.; and, U.S. Patent 5,205,138 to Besore et al. are enclosed as further examples of serpentine tubing but are not considered particularly relevant to the present invention.

U.S. Patents 5,099,574 and 5,228,198, both to Paulman et al., are directed to a method of forming a heat exchanger assembly including wrapping a one-piece heat exchanger tube onto a heat transfer unit having fins on upper and lower surfaces where the fins are provided with notches for receiving a section of the heat exchanger tube. Patents are not directed to spine fin tubing and do not show the claimed invention.

Applicant also encloses copies of U.S. Patents 5,737,828 and 5,896,659, both to Barnes, as examples of methods and apparatus for continuously forming spine fin heat exchangers. These patents are commonly assigned with the present invention.

As noted, the foregoing are submitted solely to comply with applicant's duty of disclosure and are not considered to be particularly relevant to the claimed invention.

Respectfully Submitted,



William O'Driscoll
Registration No. 33,294

Telephone Number: (608) 787-2538

Please type a plus sign (+) inside this box → +

PTO/SB/08A (08-00)

Approved for use through 10/31/2002. OMB 0651-0031
U.S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

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INFORMATION DISCLOSURE STATEMENT BY APPLICANT				Application Number	
				Filing Date	
				First Named Inventor	Beaver, D. D.
				Group Art Unit	
				Examiner Name	
Sheet	1	of	1	Attorney Docket Number	D-2511/WOD

U.S. PATENT DOCUMENTS

FOREIGN PATENT DOCUMENTS

Examiner Signature		Date Considered	
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¹ Unique citation designation number. ² See attached Kinds of U.S. Patent Documents. ³ Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴ For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁵ Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. ⁶ Applicant is to place a check mark here if English language Translation is attached.

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PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

IN THE PATENT APPLICATION OF:

DANNY D. BEAVER

U.S. SERIAL NO: UNKNOWN
PARENT U.S. SERIAL NO: 10/005,775

GROUP: UNKNOWN
PARENT GROUP: 3726

FILED: CONCURRENTLY
PARENT FILED: NOVEMBER 2, 2001

EXAMINER: UNKNOWN
PARENT EXAMINER:
ERIC B. COMPTON

FOR: FORMING SERPENTINE HEAT EXCHANGERS
FROM SPINE FIN TUBING

La Crosse, Wisconsin
February 17, 2004

SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT

Mail Stop Patent Application

Commissioner for Patents

P.O. Box 1450

Alexandria, VA 22313-1450

Dear Sir:

In addition to the Information Disclosure Statement filed in the patent application as submitted herewith, applicant identifies the following patents as having been cited by the Examiner in the prosecution of the parent application: U.S. Patent 1,546,147 to Skinner; U.S. Patent 2,469,406 to Payne et al.; U.S. Patent 2,746,727 to Earl, Jr.; U.S. Patent 2,876,823 to Knox et al.; U.S. Patent 3,120,383 to Antwerpen et al.; U.S. Patent 3,673,845 to Vercoglio; U.S. Patent 4,439,175 to Cimochowski et al.; and, U.S. Patent 5,669,261 to Castren.

Respectfully Submitted,

William O'Driscoll

William O'Driscoll
Registration No. 33,294

Telephone Number: (608) 787-2538

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Substitute for form 1449/PTO

Complete if Known**INFORMATION DISCLOSURE
STATEMENT BY APPLICANT**

(Use as many sheets as necessary)

Sheet 1

of 1

Application Number	
Filing Date	
First Named Inventor	Danny D. Beaver
Art Unit	
Examiner Name	
Attorney Docket Number	D-2511Div1/WOD

U. S. PATENT DOCUMENTS

Examiner Initials*	Cite No. ¹	Document Number Number-Kind Code ² (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		US- 1,546,147	07-14-1925	Skinner	
		US- 2,469,406	05-10-1949	Payne et al.	
		US- 2,746,727	05-22-1956	Earl Jr.	
		US- 2,876,823	03-10-1959	Knox et al.	
		US- 3,120,383	02-04-1964	Antwerpen et al.	
		US- 3,673,845	07-04-1972	Vercoglio	
		US- 4,439,175	03-27-1984	Cimochowski et al.	
		US- 5,669,261	09-23-1997	Castren	
		US-			

FOREIGN PATENT DOCUMENTS

Examiner Initials*	Cite No. ¹	Foreign Patent Document Country Code ³ -Number ⁴ -Kind Code ⁵ (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages Or Relevant Figures Appear	T ⁶

Examiner Signature		Date Considered
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